

Patent Claims

1. An intake air filter for an internal combustion engine,
comprising:

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at least one main filter;

at least one fine filter; and

a circumferential sealing member formed on said main
filter, wherein said fine filter is fixedly connected with said sealing
member.

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2. An intake air filter according to claim 1, wherein said
sealing member is made of foam material.

3. An intake air filter according to claim 2, wherein said foam
material is polyurethane.

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4. An intake air filter according to claim 1, wherein said fine
filter is provided with a rim, and wherein said rim is molded into said
sealing member.

5. An intake air filter according to claim 4, wherein said rim
of said fine filter is foamed into said sealing member.

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6. An intake air filter according to claim 4, wherein said fine
filter is spaced from said main filter in a direction of flow of air through
said intake air filter.

7. An intake air filter according to claim 1, wherein said main filter is a lamellar filter.

5 8. An intake air filter according to claim 1, wherein said main filter has an essentially quadratic configuration, wherein a shortest edge thereof is disposed parallel to a direction of flow of air through said intake air filter.

9. An intake air filter according to claim 1, wherein said fine filter is flat and has a rectangular shape.

10 10. An intake air filter according to claim 1, which further includes a housing, wherein said sealing member rests against said housing and separates a clean chamber which is in communication with an intake channel of the engine, from a dirty chamber from which air is drawn.

15 11. An intake air filter according to claim 10, wherein said housing is formed of at least two housing portions that are interconnected in a vicinity of said sealing member, and wherein said sealing member rests sealingly against said housing portions.